

State Nonpoint Source Program

Implement All 61 Management Measures By 2013

Including

MM	Wetlands MMs	
6A	Wetlands-Riparian Areas Protection	
6B	Wetlands-Riparian Areas Restoration	
6C	Vegetated Treatment Systems	
6D	Education-Outreach	
	Hydromodification MMs	
5.1B	Channelization/Channel Modification: Instream and Riparian Habitat Restoration	

**Wetland Subcommittee
Management Measure Tracking
Objective :**

**Report on State Funded Efforts to
Protect and Restore Wetlands
and Riparian Areas**

= Non-regulatory projects

Indicators ?

Lets see what is out there....

Categories

- Location
- Size
- Type of wetland
- Type of project

Create – Protect - Restore

Success

- Acres
- Condition
- Water Quality

Wetland Project Data Resources

Tracking Database	Data supplier	Period of record	Number of Projects	Types of Projects
			Total / Since 1993 (% Geo-referenced)	(Listed in order of prevalence)
The Natural Resource Projects Inventory (NRPI)	A Collaborative Effort between the <i>California Biodiversity Council</i> and the <i>University of California at Davis Information Center for the Environment</i> .	1980-2004*	1,368 / 1,044 (93%)	Wetland Restoration, Riparian Restoration, Education/Outreach, Monitoring/Assessment/Planning
Wetland Tracker (SFEL)	<i>San Francisco Estuary Institute</i>	1980 – 2002	144 / 72 (100%)	Wetland Restoration, Acquisition
California Habitat Restoration Project Database (CHRPD)	A cooperative project involving the <i>California Department of Fish and Game</i> , <i>NOAA Fisheries</i> , and the <i>Pacific States Marine Fisheries Commission</i> .	1981- present	1,249 / 902 (100%)	Riparian Restoration, Monitoring/Assessment, Education/Outreach, Acquisition
Parks Projects Database	<i>California Department of Parks and Recreation</i>	1980-present	252 / 140 (58%)	Riparian Restoration, Wetland Restoration, Acquisition
Wildlife Conservation Board (WCB) Project Data	<i>Wildlife Conservation Board</i>	1995-present	949 / 949 (62%)	Acquisition, Riparian Restoration, Wetland Restoration

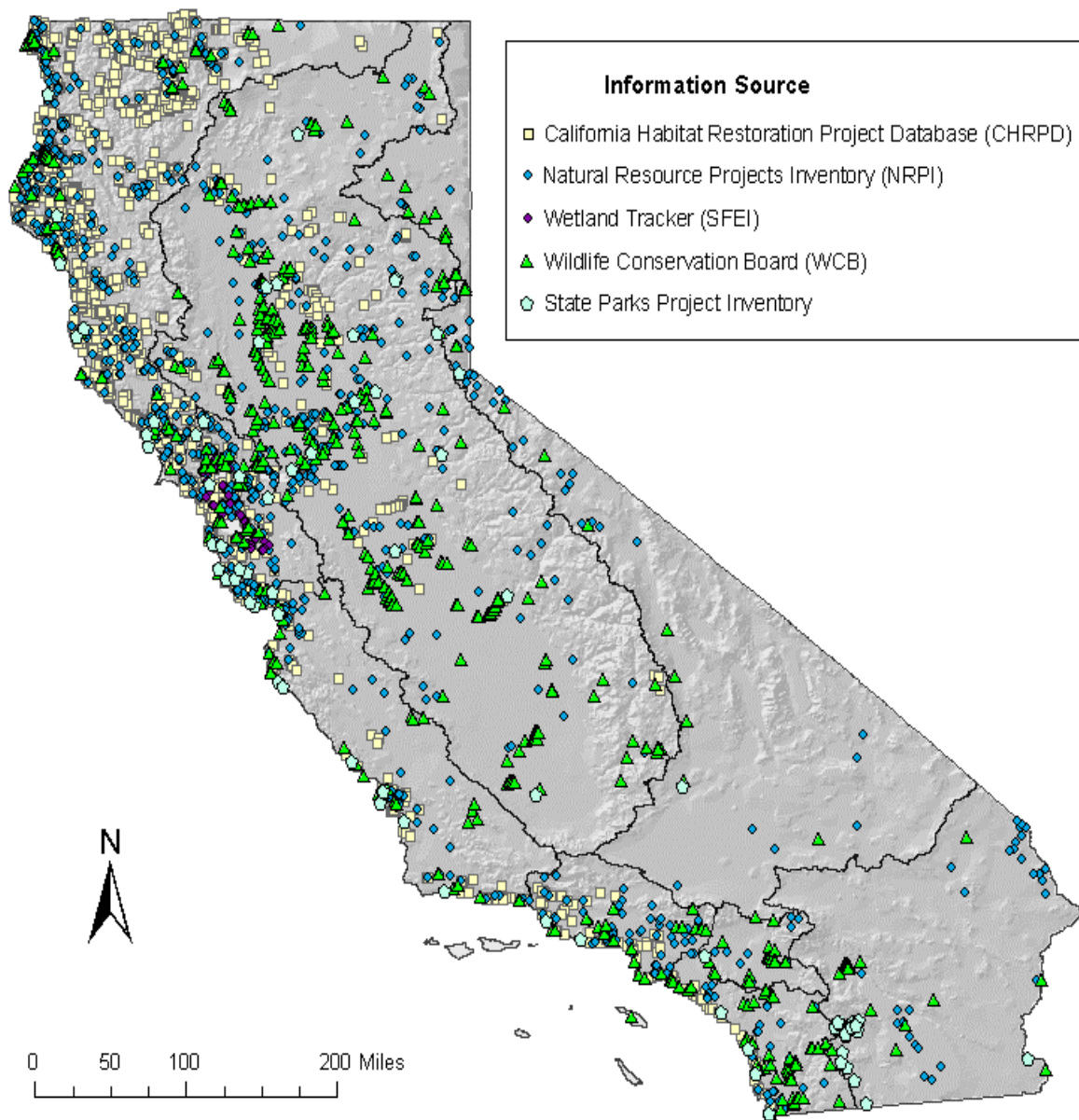
Table 1. Information from restoration project tracking databases used for summary report.

Absent:

- State Coastal Conservancy
- Joint Ventures
- Cal/Fed

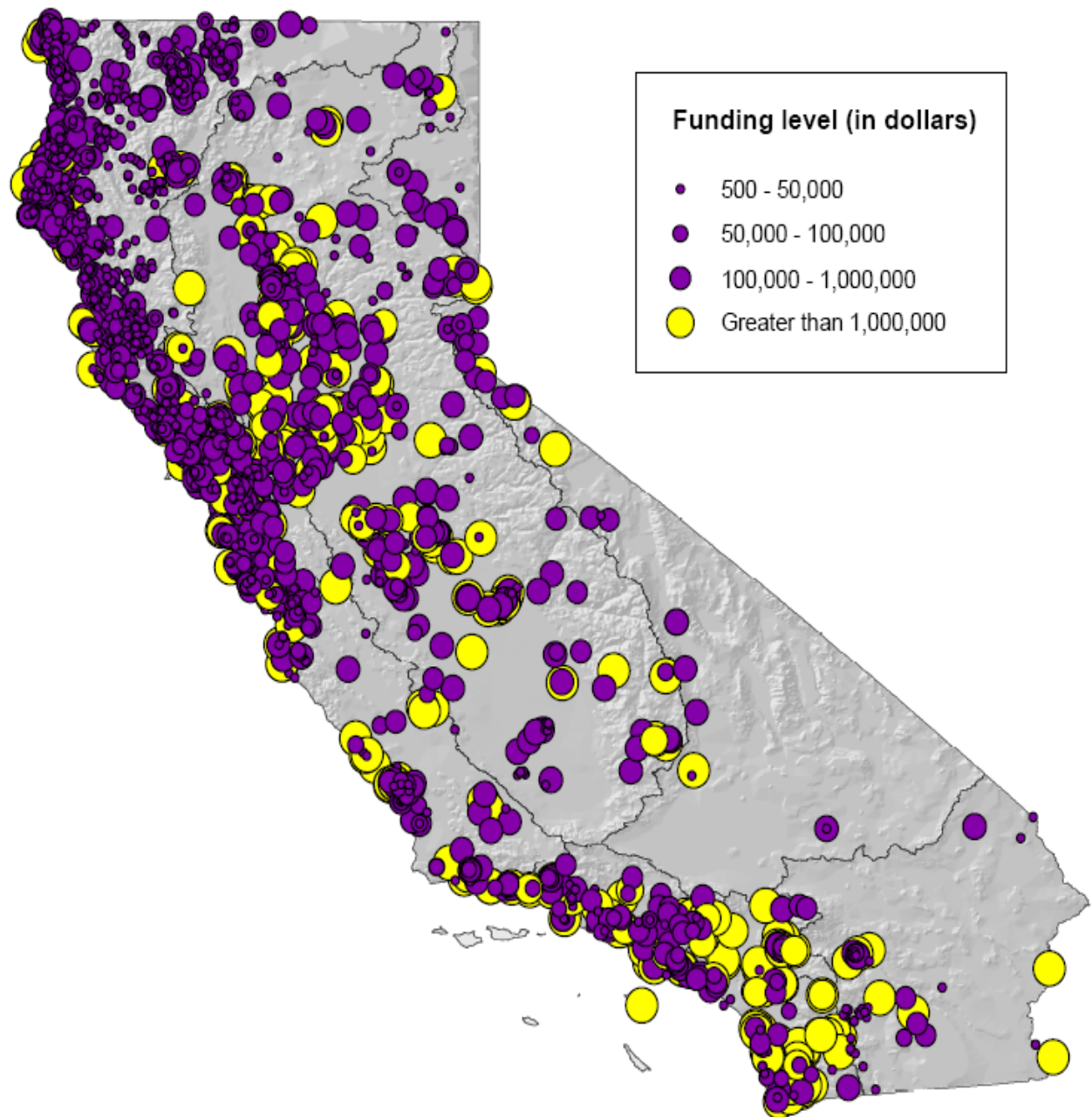
Geographic Extent of Projects

Distribution of Wetland and Riparian area Projects



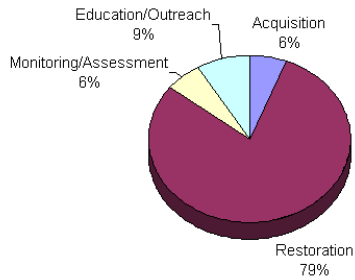
Geographic Distribution of State Resources

Wetland and Riparian area Project Cost

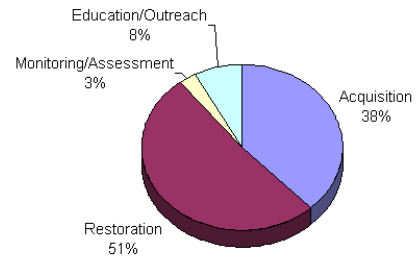


Type of Wetland Project by Data Source

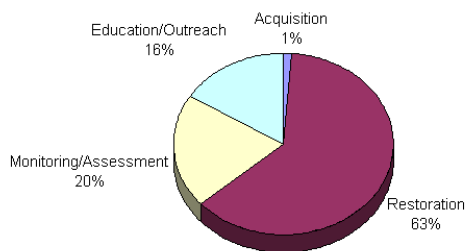
Number of Projects (NRPI)



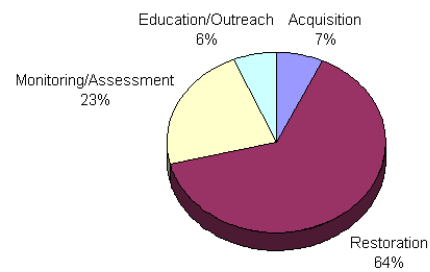
Project Cost (NRPI)



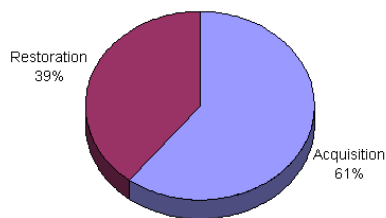
Number of Projects (CHRPD)



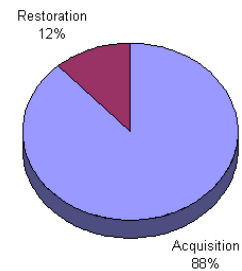
Project Cost (CHRPD)



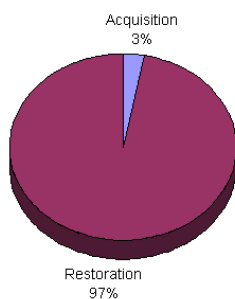
Number of Projects (WCB)



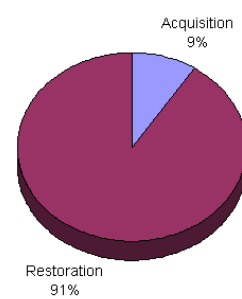
Project Cost (WCB)



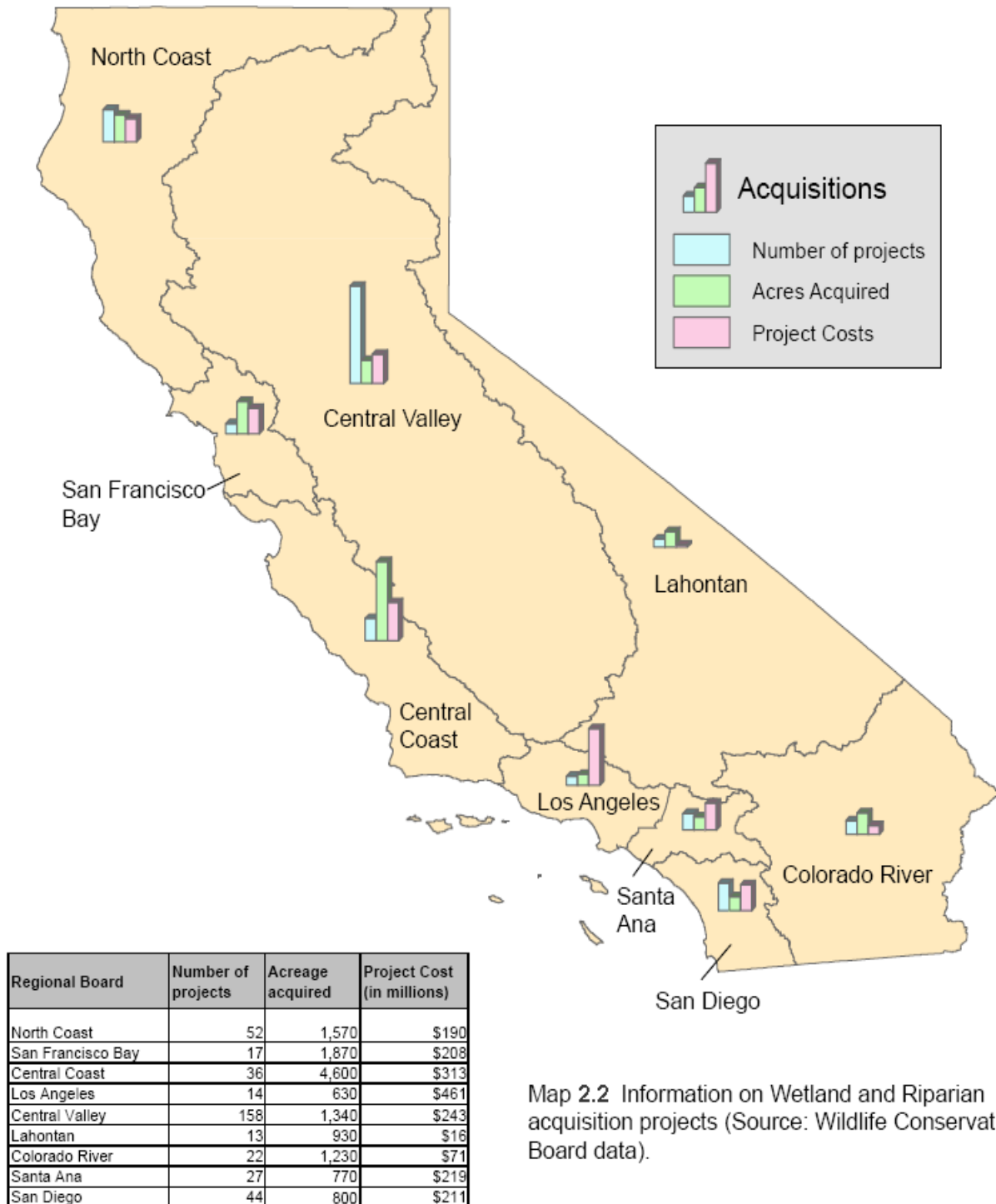
Number of Projects (State Parks)



Project Cost (State Parks)

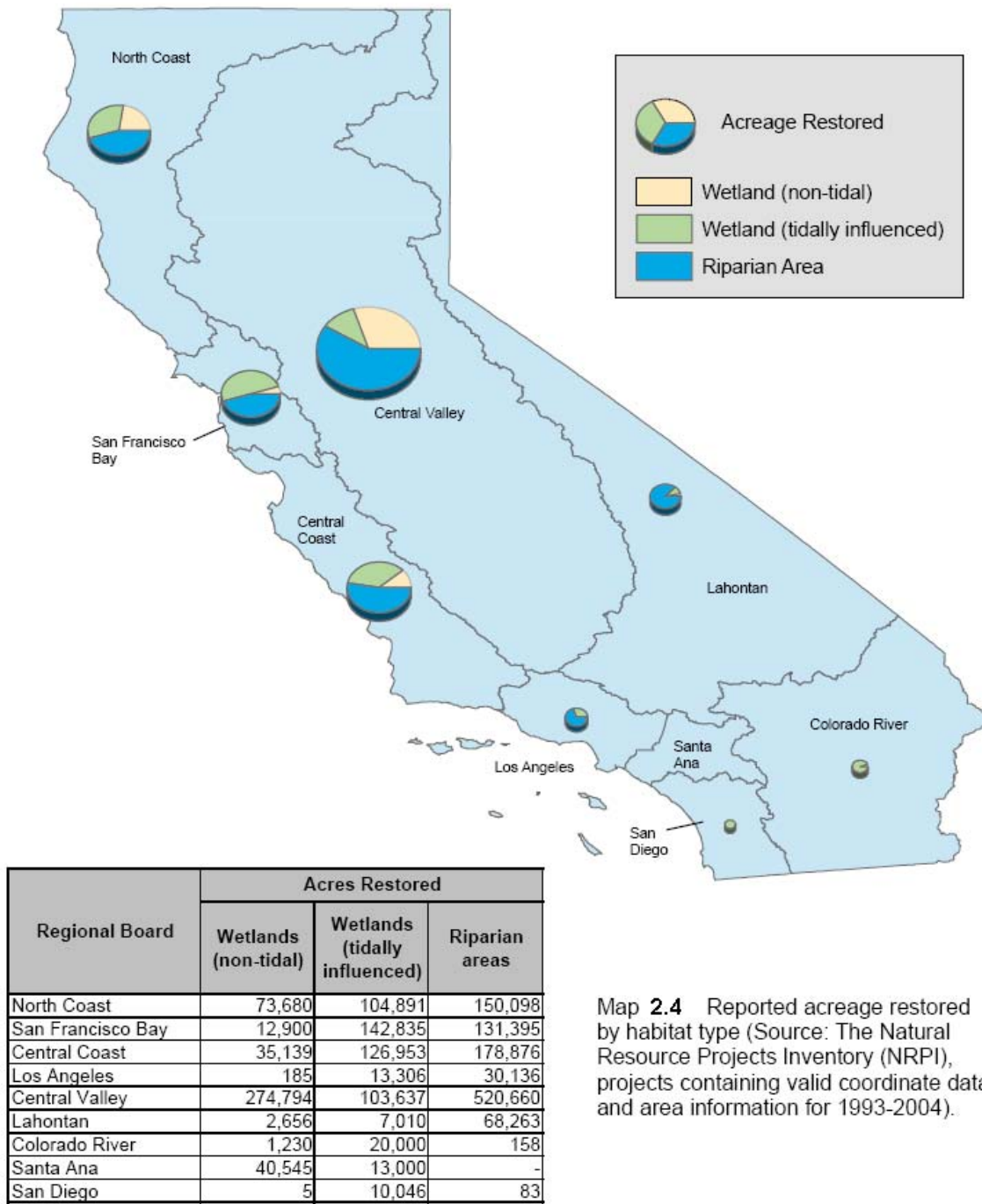


Regional Acquisition Patterns



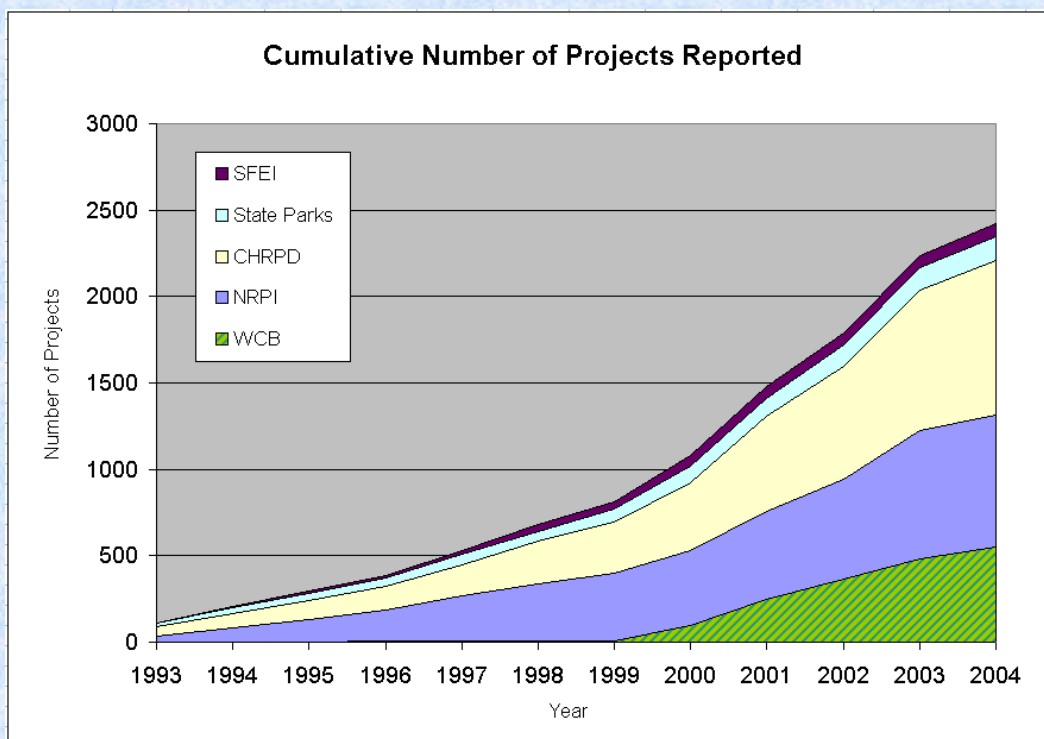
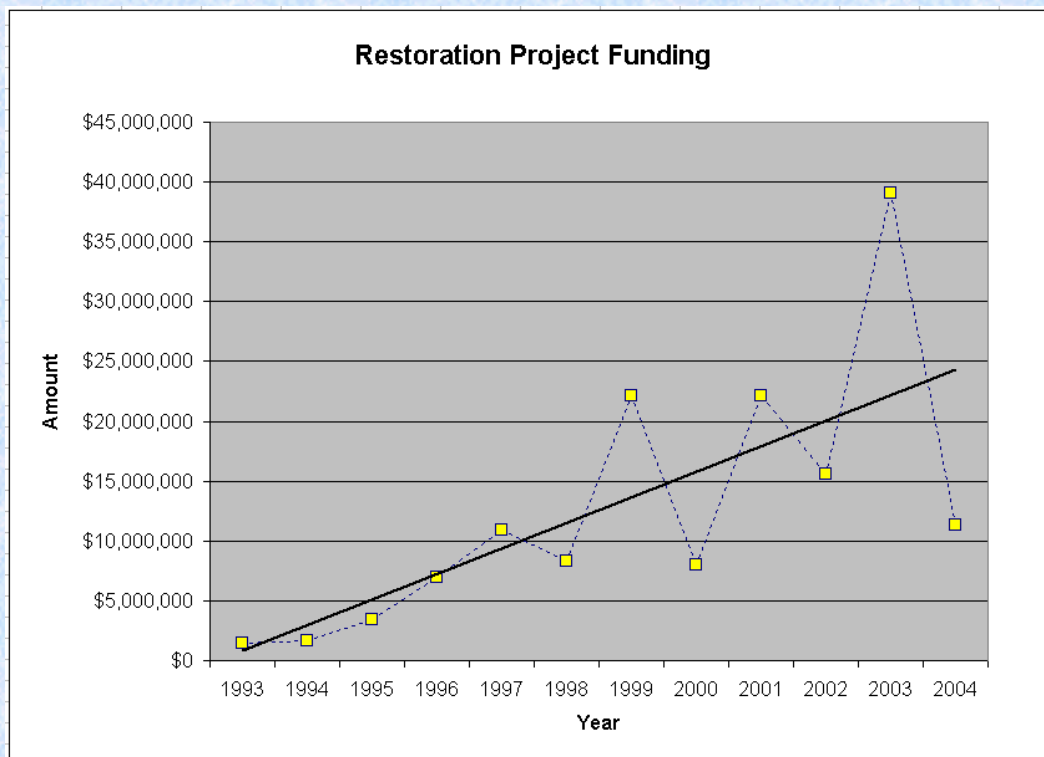
Map 2.2 Information on Wetland and Riparian acquisition projects (Source: Wildlife Conservation Board data).

Regional Assessment of Acres Restored



Map 2.4 Reported acreage restored by habitat type (Source: The Natural Resource Projects Inventory (NRPI), projects containing valid coordinate data and area information for 1993-2004).

Assessment of Cumulative State Restoration Efforts

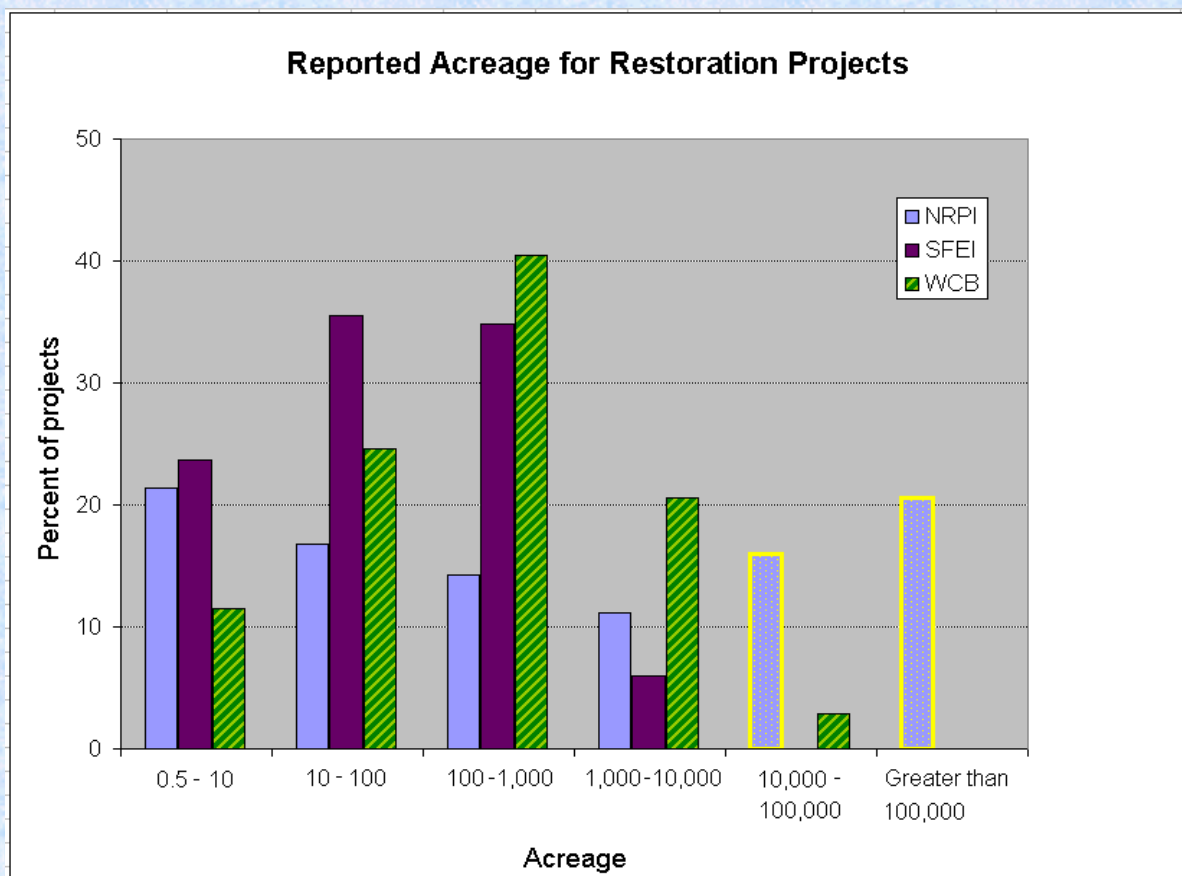
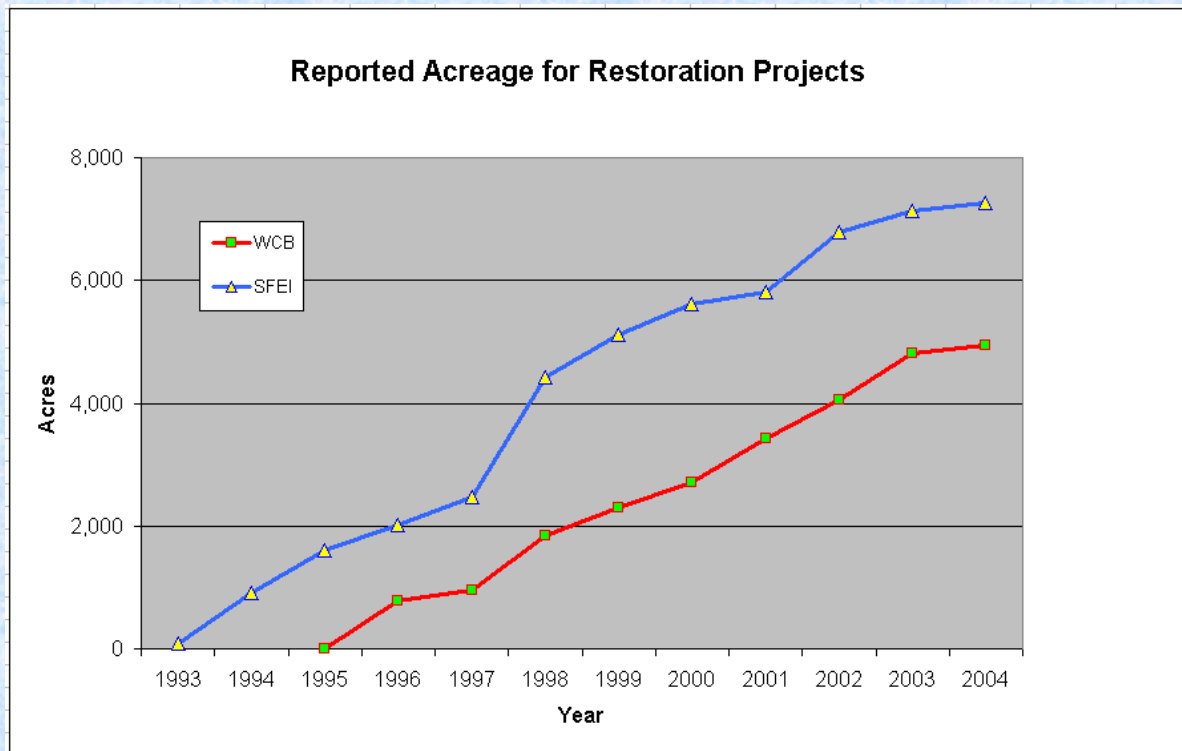


**How does this Inventory
relate to:
Non Point Source Protection**

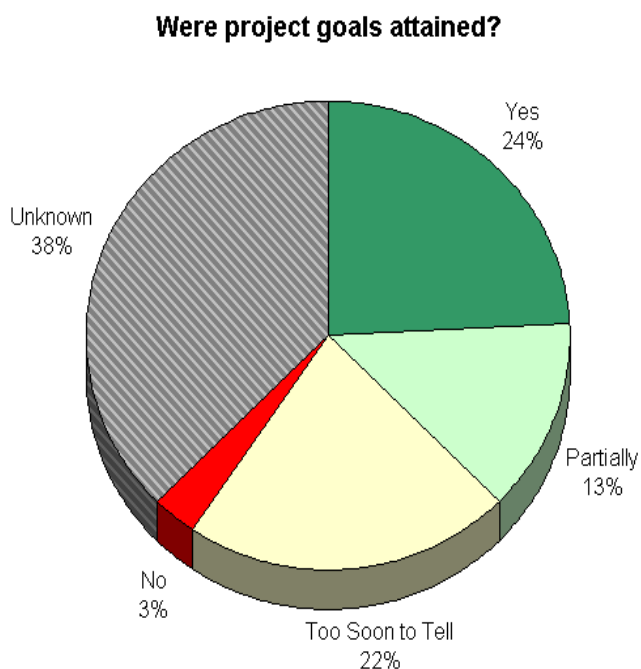
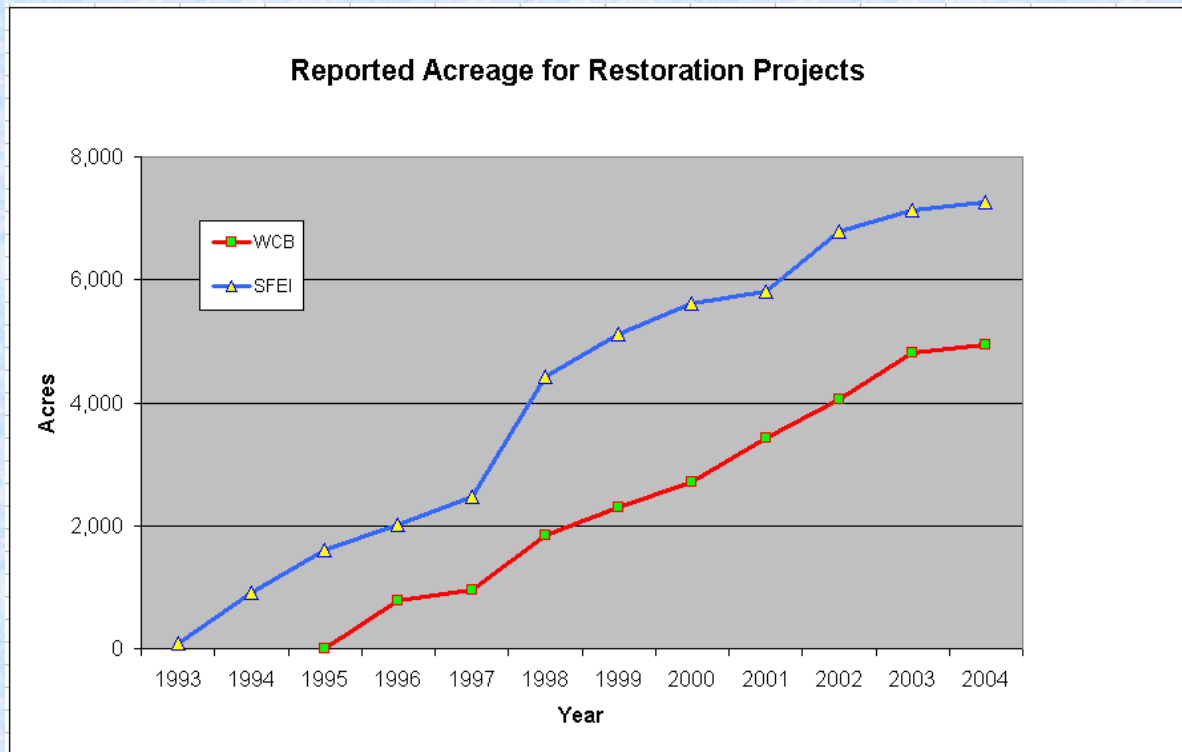


**More, Big, Healthy Wetlands =
Better Water Quality**

Net Increase in Wetland Acreage



Project Effectiveness?



Database	% Projects with monitoring or assessment
NRPI	17%
WCB	16%
SFEI	10%
CHRPD	8%



Water Quality Value of Projects?

**Monitoring Data
Success Stories
Demonstration Projects
Load Estimates**

Can we ever get to this?

- **Case studies**
- **Regional monitoring programs**
- **Watershed Pilots**

Indicators ?

Categories

- Location

OK

- Size

Unreliable except for

Wetland Tracker

- Type of wetland

Tidal, Non-tidal, Riparian

- Type of project

Create – Protect – Restore

What is Restore?



Success Criteria

- **Acres**

Unreliable except for

Wetland Tracker

- **Condition**

Not available

- **Water Quality**

Not available

**Condition = California Wetland
Monitoring Program**

Recommended data fields for tracking wetland projects

- **Project Identifier**
- **Information about the purpose of the project**
- **Category of restoration project, & separate field containing detailed information on activity**
- **Habitat type**
- **Project Start and End date**
- **Lead agency, Primary contact information, Funding agency and Funding Amount**
- **Coordinates (Latitude and Longitude) for project location**
- **Accurate acreage estimates for project (polygons?)**
- **Goals and Goal attainment**
- **Categorical values for project type (including creation & Veg. treatment) and habitat type**
- **More detailed information about the allocation of resources for projects with multiple components (i.e., restoration, monitoring, and education/outreach)**

Recommendations from TMC

Databases and data fields

- **Other Databases not identified**
- **Other Data Fields or Tracking Methods**
- **Link to Monitoring Data**
- **Key Questions – Success Criteria**
- **Outcomes –Prescribe Need**
- **Wetland Tracking in General – Should We improve the system**



Thanks